IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:)
)
    Robert M. Zeidman   )   Examiner: Ben C. Wang
)
Serial No.: 10/688,573   )   Art Unit: 2196
)
Filed: October 20, 2003   )
)
For: Software Tool for Synthesizing a   )
Real-Time Operating System   )
)
_____)

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Transmittal for an Amendment and Response to Final Office Action

Dear Sir:

In response to the Final Office Action mailed March 13, 2007, please find enclosed:
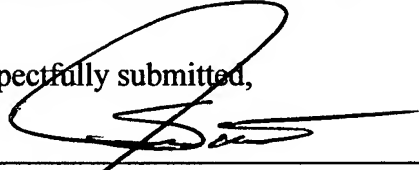
(1) An Amendment and Response to Final Office Action; and

(2) Postcard.

Please associate this patent application with Customer No. **48809**.

Respectfully submitted,

Date: May 3, 2007

_____

Jim H. Salter
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Customer No. **48809**
105 Thoreau Lane
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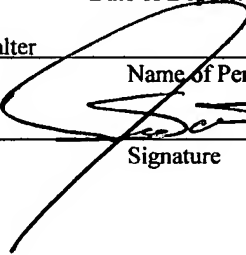
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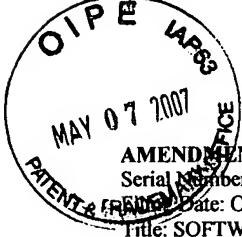
on May 3, 2007 .
        Date of Deposit

Jim H. Salter _____
        Name of Person Mailing Correspondence

_____ May 3, 2007 _____
        Signature   Date

-2-

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111
Serial Number: 10/688,573
Filing Date: October 20, 2003
Title: SOFTWARE TOOL FOR SYNTHESIZING A REAL-TIME OPERATING SYSTEM

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Dkt: Zeid-01

<u>S/N 10/688,573</u>   <u>PATENT</u>

<u>IN THE UNITED STATES PATENT AND TRADEMARK OFFICE</u>

Applicant:	Robert M. Zeidman	Examiner: Ben C. Wang
Serial No.:	10/688,573	Group Art Unit: 2196
Filed:	October 20, 2003	Docket No.: Zeid-01
Title:	SOFTWARE TOOL FOR SYNTHESIZING A REAL-TIME OPERATING SYSTEM	

<u>AMENDMENT AND RESPONSE UNDER 37 CFR § 1.116</u>

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

This responds to the Final Office Action mailed on <u>March 13, 2007</u>. Please amend the above-identified patent application as follows to put the case in condition for allowance.

<u>IN THE CLAIMS</u>

Please amend the claims as follows:

1) (Currently Amended) A method for developing a real-time operating system, comprising:
  a) specifying a set of n tasks, task(1) through task(n), to be scheduled for execution, at least one of the tasks of said set of n tasks being selectively configurable as a preemptive or a non-preemptive task;
  b) specifying a scheduling algorithm for scheduling the execution of said set of n tasks; and
  c) synthesizing source code with embedded from commands embedded in source code to implement a task scheduler that uses said scheduling algorithm and said embedded commands for controlling execution of said set of n tasks, said synthesized source code being executable on a target system after compilation.

2) (Currently Amended) The method of claim 1) further including specifying t init-tasks that are executed only once upon initial execution of said task scheduler, t being less than or equal to n.

3) (Currently Amended) The method of claim 1) further including specifying f f-loop tasks, each having an associated integer value $c(i)$ for i ranging from 1 to f and f being less than or equal to n, said task scheduler including a continuously executing loop such that each f-loop task executes exactly once every $c(i)$ times that the loop is executed.

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